## PATENT COOPERATION TREATY

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From the INTERNATIONAL SEARCHING AUTHORITY	Palmer & Da	
To: KATHLEEN M. WILLIAMS, PH.D. PALMER AND DODGE, LLP ONE BEACON STREET	Palmer & Dodge, LL	
Boston MA 02108-3190  Docketed  Activity 19 Amena 5 (117 100)  Response due Act Ci ted io US cuse 7	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION	
Statutory Period 11/7/00 -1 12/7/00 Palmer & Dodge, LLP	(PCT Rule 44.1)	
Patent Department	Date of Mailing (day/month/year) 07 SEP 2000	
Applicant's or agent's file reference 25436/1430	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US00/17404	International filing date (day/month/year) 23 JUNE 2000	
Applicant STRATAGENE		
	Il search report has been established and is transmitted herewith.	
Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):		
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.		
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35		
For more detailed instructions, see the notes on the accompanying sheet.		
2. The applicant is hereby notified that no international Article 17(2)(a) to that effect is transmitted herewith	il search report will be established and that the declaration under in	
	) additional fee(s) under Rule 40.2, the applicant is notified that:	
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.		
no decision has been made yet on the protest	; the applicant will be notified as soon as a decision is made.	
4. Further action(s): The applicant is reminded of the fo		
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.		
Within 19 months from the priority date, a demand for i wishes to postpone the entry into the national phase u	nternational preliminary examination must be filed if the applicant ntil 30 months from the priority date (in some Offices even later).	
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.		
Name and mailing address of the ISA/US	Authorized officer	

Commissioner of Patents and Trademarks ARUN CHAKRABARTI Box PCT Washington, D.C. 20231 (703) 308-0196 Telephone No. Facsimile No. (703) 305-3230

## NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the masner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
   Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
   Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding

"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

### "Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be assended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement abould be brief, it should not exceed 500 words if in English or if exceleted into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims at filled and as amended. It must be filled on a separate short and must be identified as such by a heading, productibly by using the words "Sustament under Article 19(1)."

It should not countin any dispusaging comments on the international search report or the selevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

#### In what imaginege?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

## Consequence if a demand for international preliminary examination has aircody been filed ?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

# Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Tresty and of the Regulations and the Administrative Instructions under that Tresty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search seport, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination proceeders, there is usually no used to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

## What parts of the international application may be assended?

The claims only.

The description and the deswings may only be amended during international preliminary examination under Chapter IL

When? Within 2 months from the date of transmitted of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the assessments will be considered as having been received on time if they are received by the international Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Eule 46.1).

#### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international prelimit: ry examination has been a filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendment, differs from the sheet originally filed.

All the claims appearing on a replacement about must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be semanhered consecutively (Administrative Instructions, Section 205(b)).

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understand that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

## PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

To: KATHLEEN M. WILLIAMS, PH.D. PALMER AND DODGE, LLP ONE BEACON STREET	PCT			
BOSTON MA 02108-3190	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of Mailing (day/month/year) 07 SEP 2000			
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below			
25436/1430	FOR FORTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US00/17404	International filing date (day/month/year)  23 JUNE 2000			
Applicant STRATAGENE				
1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith.  Filing of amendments and statement under Article 19:  The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):				
When? The time limit for filing such amendm international search report; however, for	ents is normally 2 months from the date of transmittal of the r more details, see the notes on the accompanying sheet.			
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the fo	llowing:			
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, a demand for in wishes to postpone the entry into the national phase ur	nternational preliminary examination must be filed if the applicant ntil 30 months from the priority date (in some Offices even later).			
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				

Name and mailing address of the ISA/US

Commissioner of Patents and Trademarks Box PCT

Washington, D.C. 20231 the second to the second time the second Authorized officer

ARUN CHAKRABARTI A

## PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 25436/1430	FOR FURTHER See Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US00/17404	23 JUNE 2000	23 JUNE 1999
Applicant STRATAGENE		
according to Article 18. A copy is	been prepared by this International Searching A being transmitted to the International Bureau.	uthority and is transmitted to the applicant
This international search report con		
X It is also accompanied by	a copy of each prior art document cited in this	report.
1. Certain claims were for	und unsearchable (See Box I).	
2. Unity of invention is la	cking (See Box II).	
3. The international applic international search was	ation contains disclosure of a nucleotide and/ carried out on the basis of the sequence listing	or amino acid sequence listing and the
	filed with the international application.	
	furnished by the applicant separately from the	
	but not accompanied by a state going beyond the disclosure in	ment to the effect that it did not include matter the international application as filed.
	transcribed by this Authority.	
4. With regard to the title, X	the text is approved as submitted by the app	licant.
	the text has been established by this Authori	ty to read as follows:
5. With regard to the abstract,	<b>.</b>	
<u> </u>	the text is approved as submitted by the app	
L	the text has been established, according to R Box III. The applicant may, within one montl search report, submit comments to this Aut	h from the date of mailing of this international
6. The figure of the drawings to	be published with the abstract is:	
Figure No	as suggested by the applicant.	None of the figures
	because the applicant failed to suggest a fig	ure.
Ī	because this figure better characterizes the	invention.

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## INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/17404

IPC(7) :	SIFICATION OF SUBJECT MATTER C12N 15/10; C12Q 1/68 536/25.4; 435/6	ational classification and IPC		
	International Patent Classification (IPC) or to both n	ativital Cidosification and IFC		
B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)				
		by classification symbols,		
U.S. : 5	336/25.4; 435/6			
435/91.2;	ion searched other than minimum documentation to the e $536/23.1$			
WEST, ST	ata base consulted during the international search (nam IN, MEDLINE, BIOSIS, CAPLUS, EMBASE, GEN lentify, enrich, cleave, fragment, HPLC, denaturing,	BANK	, search terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	ropriate, of the relevant passages	Relevant to claim No.	
х	The second company of the August 1009 and entire		1-3, 49-51, 53-55, 75-76	
x	US 5,571,672 A (SLAVICEK et al) 05 November 1996, see entire document.		1-3, 49, <b>52,</b> 75, 76	
Y	US 5,866,429 A (BLOCH et al) 02 February 1999, see entire document.		1-7, 9-17, 26, 41- 43, 45-51, 53-57, 69-71, 73, 75, 76	
	ther documents are listed in the continuation of Box C.	*T* leter document published after the in	ternational filing date or priority	
*A* document defining the general state of the art which is not considered the principle or theory underlying the invention				
to be of particular relevance  "X"  document of particular relevance: the claimed invention cannot be considered novel or cannot be considered novel novel novel novel novel novel novel n				
1 0	when the document is taken alone			
*O* d	locument referring to an oral disclosure, use, exhibition or other nears	combined with one or more other su being obvious to a person skilled in	ich documents, such combination i the art	
1 (	document published prior to the international filing date but later than the priority date claimed	*&* document member of the same pate		
Date of th	e actual completion of the international search	Date of mailing of the international s	caren report	
26 JUL	Y 2000	0 7 SEP 2000		
Name and Commiss Box PCT	I mailing address of the ISA/US sioner of Patents and Trademarks	Authorized officer  ARUN CHAKRABARTI	Ø	

#### INTERNATIONAL SEARCH REPORT

International application No. PCT/US00/17404

C (Continua	ntion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,811,269 A(NADEAU et al) 22 September 1998, see entire document.	1-17, 26, 41, 49- 51, 53-57, 69-71, 73, 75-76, 99- 103, 109-117, 122-126, 140-144
Y	US 5,891,627 A (EVANS et al) 06 April 1999, see entire document.	1-17, 26, 41, 49- 51, 53-57, 69-71, 73, 75-81, 99- 103, 109-130, 140-144
Y	SANGER et al. DNA Sequencing with Chain-Terminating Inhibitors. Proc. Natl. Acad. Sci. USA. December 1977, Vol. 74,. No.12. pages 5463-5467, see entire document.	1-17, 26, 41, 49- 55, 57, 69-71, 73, 75-144
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